

Please forward to the

Term 1, 2017

Senior

Chemistry

Teacher

NEW and Exciting Teaching Assets Education Matters for expert product support

Caffeine Beaker with Handle 400ml

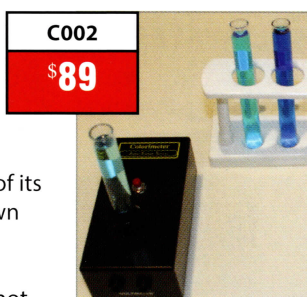
- On one side of this clear beaker mug is a caffeine molecule, enameled in white and on the other side it has graduations up to 350 ml.
- When coffee or any other dark colored drink is added, the molecular structure becomes very visible.
- The attached handle stays cool when holding hot liquids. Made of heat-resistant borosilicate glass. Total volume of 400 ml.



5717-06C
\$20

Colorimeter

- A student colorimeter that is easy to use and inexpensive enough for class sets.
- Determine the concentration of a solution by comparing the intensity of its colour with that of a solution of known concentration.
- Battery operated.
- Plugs straight into your multimeter (not supplied).



C002
\$89

Lab Tech's choice!

Superior Salt Bridge

For use in experiments involving the measurement of cell EMF under conditions of forward, zero, and reverse current flow. The bridge comprises an inverted 'U' tube with its ends closed by sintered discs. This apparatus provides a more effective method of making reversible cells than the wet filter paper or agar gel methods. Arm diameter 13mm, width 8cm and overall height 10cm

2090440
\$10



NEW

Chemistry Special! Electrochemical Excellence

Premium Gas Laws Apparatus

Quantitatively confirm the Combined Gas Law with one complete apparatus!

The Combined Gas Law simplifies the Ideal Gas Law and describes a relationship between the pressure, temperature and volume of a gas that is constant. Students can verify this relationship using air and this unique apparatus. Twist the handle to compress the air, and simply read the volume, temperature and pressure from the scales. Repeat and show that the relationship stays the same.

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

How Good is this? All in One



Precision Instruments

P12065
\$229



For the Teacher / Lab Tech who has everything!

Cheers!

- Also for the "STAR" student of the day!
- Super High Quality
- Ultimate promoter and motivator
- Rainbow Tie-Dye Lab Coat

Premium lab coat is pre-shrunk, 100% heavyweight cotton twill for extra durability, hand dyed rainbow Tie-Dye, knee length with full sleeves, two roomy lower pockets, and side slit openings for easy access to pants pockets.

MEDIUM

8833-10
\$69

LARGE

8833-20
\$69



ATOM ACTIVITY MODEL KIT

EMAAM
\$39

EM Best Seller

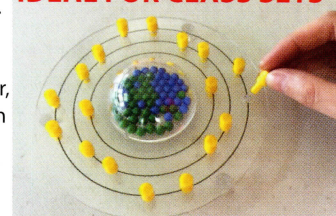
An easy-to-understand model of atomic structure

Dramatic Motivational Manipulative

CORE CONCEPT BUILDER

Your class can now graphically model the atom. All of the key components are represented, including the nucleus; the particles that constitute the atom including the protons, neutrons and electrons; and the electron layers. Facilitates clear comprehension of the atom's structure and such important concepts as atomic number, electroneutrality, the filling of electron layers. Durable, plastic model is transparent for convenient use with an overhead projector.

IDEAL FOR CLASS SETS



Now with printable 28 page study guide included in flash drive.

Electronic Balance 1000 x 0.01g !

The complete multipurpose balance Great capacity! Great resolution!

Great price

EM Best Seller

- Full size
- Breeze break
- Tare Function
- Mains and Battery
- Build in bubble level to provide maximum accuracy.

Most Reliable

No longer will you have to worry by loss of capacity using the tare function!



EM7264
\$145

Prices do not include GST. Add 10%

EDUCATION MATTERS

ABN 77 094 935 869

1/31 Dalgety St, Oakleigh Vic. 3166 Ph: (03) 9568 6408 Fax: (03) 9568 1938
Email: sales@educationmatters.com.au www.educationmatters.com.au

Chemistry Teachers a challenge for your students!

- Can they explain how and why this type of **FUEL CELL** works to drive these vehicles with only salt water as the fuel source!
- Can they draw chemical diagrams complete with equations and symbols including ΔH ?
- Test also for the Enviro Battery, Lemon Clock and the fabulous activities in Kitchen Science.

These kits represent a Tour De Force in classroom Applied Chemistry.

SALT WATER FUEL CAR

- This is a concept of an environmentally friendly **fuel cell** vehicle, teaches the concept of new energy
- See how this car runs by just using salt water
- All materials in this kit are environmentally safe & clean

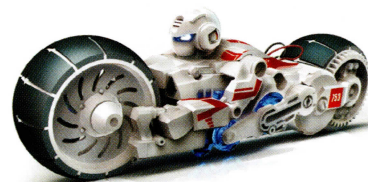


FS613

\$25

SALT WATER MOTORCYCLE

- The motorcycle is equipped with camshafts & swing arms allows for full throttle excitement
- You can go straight, right, left & radical "s" turns
- Powered by salt water which you drop onto the magnesium **fuel cell** modular

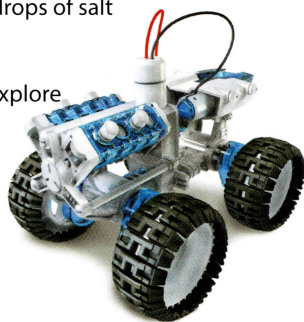


FS753

\$40

SALT WATER ENGINE CAR

- This is a concept of an environmentally friendly **fuel cell** engine
- Be amazed that by adding just a few drops of salt water the car's engine will start to run
- See how a v8 engine works
- There are other exciting activities to explore

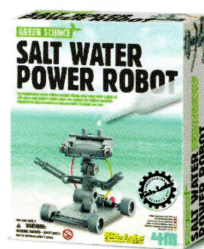


FS752

\$30

SALT WATER POWERED ROBOT

- Create a racer powered by charcoal & salt water!
- It's fun & educational



FSG3353

\$23

SALT WATER SPIDER

- An environmentally friendly **fuel cell** spider
- Be amazed that by adding just a few drops of salt water the spider will come alive & move along in a frightening manner
- Snap together plastic pieces requires no glue

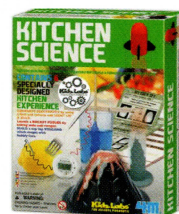


FS751

\$25

KITCHEN SCIENCE

- Perform unbelievable experiments using everyday materials
- Contains 6 specially designed kitchen experiments
- Learn how to generate electricity using a fork & a lemon and much more!



FSG3296

\$25

LEMON CLOCK

- Simply add your own lemon to turn this kit into an amazing lemon-powered clock
- Discover the science of batteries (it has none)
- Only uses the chemical power of the lemon



FSG3306

\$10

ENVIRO BATTERY

- One of the most unique & non polluting energy sources you could find on earth
- Potato, salt & mud can be used to generate electricity
- Be amazed at how they light up a bulb or a sound buzzer

**ELECTRO
CHEMISTRY
EXCELLENCE**



FSG3261

\$25

Electrochemistry

TEN(10) LEVEL CONDUCTIVITY INDICATOR (LED)

10 Level Conductivity Indicator can be used for a quick comparison of conductivity in solutions such as tap water, vinegar, baking soda solution, or varying concentrations of salt water.

2053300

\$45

Features:

- Micro switch for push to hold, to check the conductivity.
- Multicolor bar leds.
- Prongs: Material – Brass, Length – 3" approx.
- Conductivity indicator.
- 12V Battery (Size 23A) Operated.(Included with case)
- Case: Acrylic Moulding Base and ABS Moulding Cover
- Dimensions: L (134mm) X W (60mm) X H (29mm) approx.

Taking conductivity to the next level!



Perfect for variable conductivity

EM Best Seller

CONDUCTIVITY TESTER (LED)

Battery operated with LED display. Fully portable and convenient.

Simply place the probes in a liquid or against solids to test for conductivity. The LED glows according to the conductivity. The more it conducts the brighter it glows. Simple and easy but impressive.

EM906

\$32



GIANT SIMPLE CELL

This giant 15cm x 10cm Plastic simple cell with jumbo electrodes (Zn, Cu) is a great entry point for demonstrating electrochemistry in action. I always start with this set up as a primer in the more junior classes before progressing to the more complex concepts later. It's big enough for all to see.

Start with this then...

CH0740B

\$16



HAND HELD pH METER

A simple and accurate device

- Features:
- 1 - 14 pH range / 0.1 pH resolution
 - 0° - 50°C operating temperature
 - Replacement pH solution
 - Calibration tool
 - Storage case

QM1670

\$72

EM Most Reliable

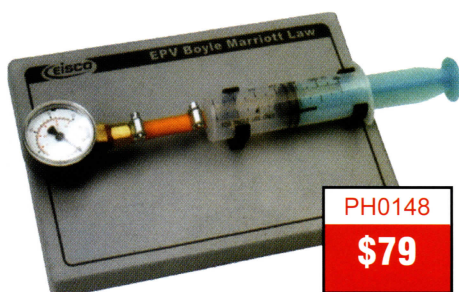


Boyle's Law - Marriot

- Demonstrates the relationship between the pressure and volume of a closed quantity of gas at constant temperature.
- Mounted on ABS plastic base of size 250 x 175 mm

With Gauge

Superior
p a1/v



PH0148

\$79

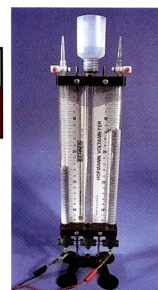
HOFFMAN VOLTAMETER - TPX

CLEAR UNBREAKABLE

EM1414

\$210

- Includes stand and platinum electrodes
- Compact new model
- Safe and easy to use in classroom
- Retains classic features of the original
- All components available as spare parts



Unique all plastic design New Improved!

VOLTAIC CELL WITH Porous Pot Salt Bridge

WITH 8 ELECTRODES

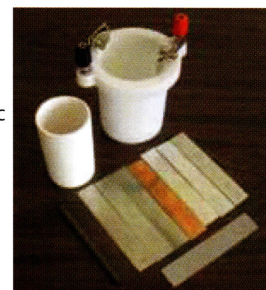
This is one of my favourite products which seems to have it all. Explore the movement of charged particles and measure current and voltage with a variety of metals and electrolytes. With instructions and 8 electrodes.

This neat package represents the complete lab for teaching about Voltaic or Galvanic Cells.

Every small lab group should have this Voltaic Cell set to work with. At the end of the prac session you can be assured that your students will have a good understanding of the principles involved.

PH008C

\$29



VOLTAMETER MINI NEAT COMPACT UNIT

- Easy to use student voltmeter
- Platinum electrodes
- with two graduated tubes, 10ml capacity

CBP0740B

\$49



LEAD ACID CELL ACCUMULATOR

Battery storage, in transparent case, without acid, uncharged fitted with handle.

20AH, 2 V

How does a car battery work?

CBP0934A

\$30

CLEAR



Molecular Model Sets

POLYLAB Classroom Superset

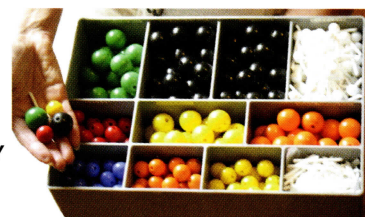
EM Best Value

An abundance of robust, large and colourful atom centres for structures of any size. Best value for size and quantity

CH0608B	Student Inorganic/organic 75A	\$39
CH0608A	Classroom Super Set 370A	\$150



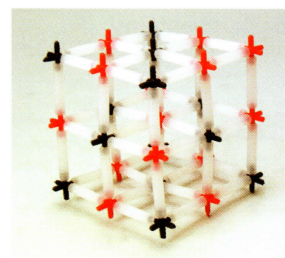
QUANTITY AND QUALITY



DISPLAY MODELS - \$15.00 EACH

Individual sets, small atom centres with straw connectors

CH0602A	Sodium Chloride 27A
CH0602B	Graphite 57A
CH0602C	Diamond 57A

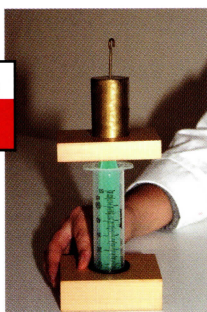


BOYLES LAW APPARATUS SIMPLE FORM

- Classic design for demonstrating the relationship between pressure and volume
- Consists of a syringe mounted between two square wooden sections

With full instruction sheet

PH0145A
\$29



DIGITAL STEM THERMOMETER

This digital thermometer features **fast response, min/max memory and data hold**. The probe is stainless steel, the body is splashproof and it will **never needs calibration**.

Specifications:

- ♦ Range: -50 to 200°C
- ♦ Resolution: 0.1°, • 205mm long

Use for ΔH in calorimetry and where glass thermometers fear to tread!

QM7216
\$26



SOLAR UV BEADS, PK/250

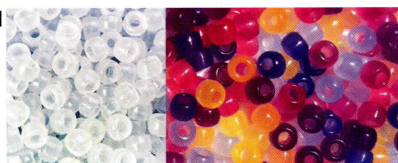
Photochemical change and Electron Energy Levels Demo!

If it is cloudy out, is it still important to wear sunscreen?

Do all sunglasses provide equal protection?

These solar beads change from white to colorful when exposed to a UV light source; the more UV light, the brighter they become. Learn about UV rays, where they come from, and what affects they have.

Multicolored. Sold in boxes of 250pcs. Comes with a helpful Teacher's Guide and reproducible Student Handout.



ASB250
\$16

HAND HELD pH METER

A simple and accurate device
Features:

- 1 - 14 pH range / 0.1 pH resolution
- 0° - 50°C operating temperature
- Replacement pH solution
- Calibration tool
- Storage case

EM Most Reliable

QM1670
\$72



For Molecular models and more!

Organise and find components easily. No more mountains of mess

CLEARVIEW ORGANISER BOXES (COB)

Clear perspex top, a multitude of uses in the prep or classroom

- Easy and orderly distribution and reclamation of materials to class or teachers. Quickly monitor and replenish materials
- Use for student groups (one insert or box per group)
- Use for anything you like e.g magnets, indicator paper, rocks, specimens, carbon discs, batteries, lenses, molecular balls and links, small lab tools etc, **For all your Knick Knacks**

COB - LARGE

56 storage compartments in 2 layers

COB001
\$38

COB - MEDIUM

12 compartments in one layer

COB002
\$22



MONITOR REPLENISH CONTROL!

MOLYMOD DNA MODEL KIT Can be assembled on stand or flat

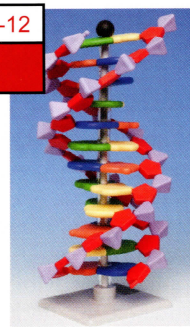
- 12 layers, advanced, 24 cms high
- Self assembly kit
- Superior quality, dual scale system
- Includes
- 6 x bases each
- 24 x deoxyribose
- 24 x phosphates
- 1 x display stand

Also available!
DNA MODEL KIT

22 layers, advanced

DNA060-22
\$114

DNA060-12
\$67

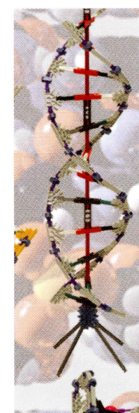


PLANAR SHAPED BASES!

K'NEX DNA REPLICATION & TRANSCRIPTION ACTIVITY MODEL SET

- Allows students to build and learn using models that demonstrate phosphate groups, deoxyribose/ribose sugars, colour-coded hydrogen bonds, four colours and colour-coded nucleotides.
- Kit includes 521 pieces and a 24 page instruction booklet
- Builds 7 different DNA and mRNA molecules.
- Build any one from 19 combinations at once.

78780
\$89



DNA TEACHER'S GUIDE

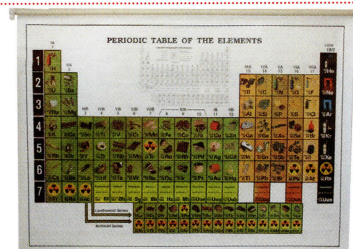
Best Seller

ILLUSTRATED PERIODIC TABLE

Graphic illustration of the elements

C598
\$39

100 x 76 cms



SINGLE HOT PLATE

Thermostat controlled
Unbeatable value
Best sellers

HP1
\$65

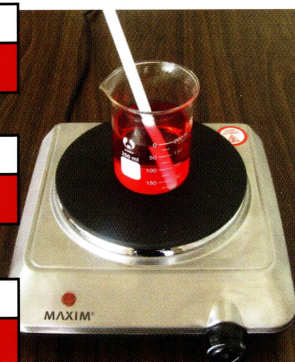
DUAL HOT PLATE

SAFETY PVC STIRRING RODS

250 x 10 mm, Unbreakable plastic.
Packet of 12

HP2
\$85

CH0757
\$14



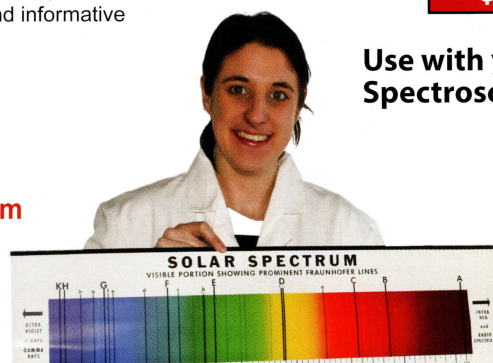
SOLAR SPECTRUM CHART

- Covers visible portion of the solar spectrum
- Shows the more prominent Fraunhofer lines
- Colourful and informative

CM0126-01
\$58

Use with your Spectroscope

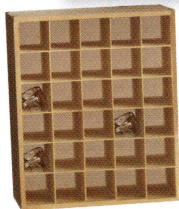
71 x 28 cm



SAFETY GLASSES

RACK

- 30 Place
- Store safely and check count easily
- Keep your safety glasses in good condition



1104038

\$85

SAFETY SPECTACLES

FIRST CHOICE

- Snug fit. One-piece wraparound design.
- Made from polycarbonate
- Australian Standards
- Unisafe



SN150

\$4⁹⁵

FLAME TEST BOTTLES

- Pack of 10
- The perfect alternative to loops.
- Dramatic and vivid flash of colours



EMFT

\$25

SUPER NITRILE GLOVES PAIR

- Premium grade
- Maximum abrasion and solvent resistant
- Electrostatic lining for improved comfort
- Textured palm for enhanced grip



GLN502 (LARGE) - \$8.00

GLN 501 (MEDIUM) - \$8.00

JUMBO TEST TUBE SPECIMEN HOLDER WITH STAND

Chunky, durable. Plastic tubes are safe at temperatures from -10° to 94°C, feature calibration marks Write on / write off

- Hand wash



LER2788

\$24

PIPETTE STAND VERTICAL

- holds 24 pipettes
- wooden

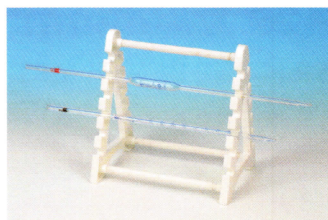


CH0590A

\$37

PIPETTE STAND

- horizontal
- holds 12 pipettes



CH0592

\$25

GAUZE WIRE MAT

- Mat with ceramic centre.
- Extra strong quality
- Pack of 10

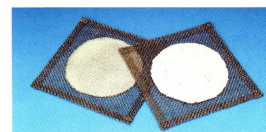
CH0525B

\$35

plain Wire
Pack of 10

CH0525D

\$20



DRAINING BASKET

Wide net like structure on all sides. Ideal for draining different laboratory apparatus. Made of polypropylene, this basket can be repeatedly autoclaved. Size 400 x 400 x 100 mm

LW0055-01

\$14



HEATING MANTLES



Wired & C Tick tested in Australia

250ml	GE3278-01	\$232.00
500ml	GE3279-01	\$240.00
1,000ml	GE3280-01	\$260.00

TEST TUBE HOLDER

- Aluminium with sliding collar
- wooden handle
- holds tubes 15-25mm

CH0727

\$3

Adjustable



TEST TUBE RACK IEC

- HD polypropylene, ideal for storing or drying test tubes

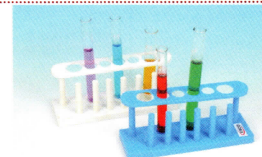
Strong, Sturdy

16 & 10mm tubes (3989-401)\$14.00
25mm tubes (3989-601)\$14.00



TEST TUBE STAND PLASTIC

25mm, 6 hole, 6 peg. Plastic, non- corrosive, durable
White.....CH0694A.....\$5.00
Blue.....CH0694B.....\$5.00



TEST TUBE RACK "COMBI"

The Universal Combi Rack is designed to hold a variety of tube sizes. **Rotatable**
The rack may be rotated to any of the four positions.

LW440801

\$13

Combinations:

- 40 place /12mm tubes
- 8 place/30mm d tubes (50ml capacity tubes)
- 24 place/17mm d tubes (15ml capacity tubes)
- 20 place/20mm tubes



Very sturdy and versatile!

THE "TITRATOR"

- White plastic coated metal stand and rod. **Heavy Duty**
- Ticks all the boxes
- Non corrosive, sturdy, white for titrations and an excellent replacement for metal stands.

Retort Stand P/P
225mm base, 75mm rod
centre hole

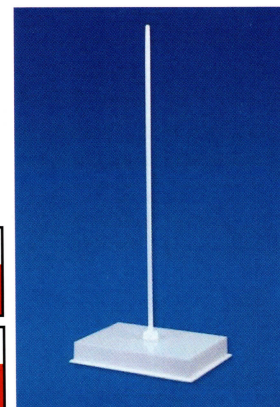
LWA477701

\$28

Retort Stand P/P
225mm base, 75mm
rod side hole

LWA478701

\$28



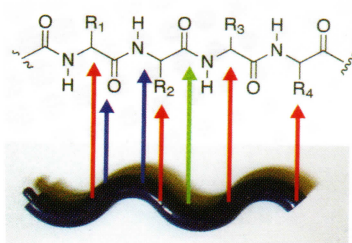
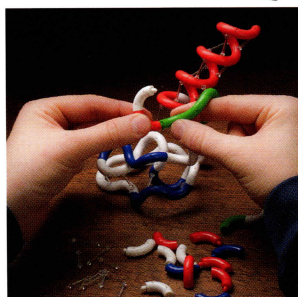
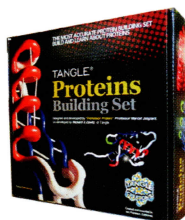
ONLY FROM EDUCATION MATTERS

TANGLE PROTEINS BUILDING SET

- Construct 3 dimensional protein models to better understand the making of amino acids & DNA in a polypeptide chain.
- Build 3 main proteins **600 PIECES!**

1. Streptococcal
2. Ubiquitin protein
3. W-conotoxin MVIIA and more

Please enjoy using this vivid, tactile and high impact product to help you teach.



HD POLYTHENE KIPPS GAS GENERATOR

Remember carting those big glass structures (Kipp's) around and bending at the knees. Why not try the lab tech friendly unbreakable polythene Kipp's?

250ml	EMA29501	\$49.00
500ml	EMA295501	\$60.00
1000ml	EMA296501	\$90.00



PI- PUMP

New Low Price



Colour - Red, Suitable for pipettes up to 25 ml	1069003	\$10
Colour - Green, Suitable for pipettes up to 10 ml	1069002	\$10
Colour - Blue, Suitable for pipettes up to 2 ml	1069001	\$10

PIPETTE FILLER

- Synthetic rubber
- 3 valves



PF1
\$10

SPECTROPHOTOMETER

- The instrument has variable wavelength and two scales: transmittance and absorbency.
- The 12nm spectral slit width provides the sensitivity required for almost any application.
- One solidstate silicon detector covers entire wavelength range, eliminating the need to change



S23A

\$1390

PLASTIC SPOTTING TILE

We like this well engineered product for its quality and ready reference numbering to help organise your spotting tests.

EMA550701

\$6



400 X 300mm SILICONE BENCH MAT

- **The size everyone has been waiting for!**

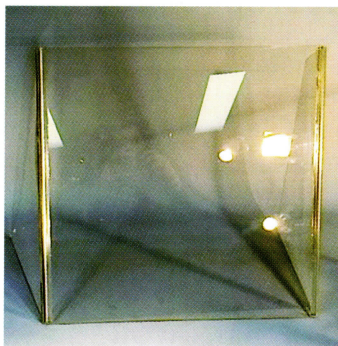
- SMOOTH SURFACE
- The above mats do not have ridges - they are smooth surface (slight texture) and suitable for general lab use.
- Not Illustrated

ALL ACRYLIC SAFETY SCREEN

Very stable and perfect for doing those tricky unpredictable demos. Why take the risk? Always use this screen. For teachers and students alike.
830 x 600mm

EMA395601

\$130



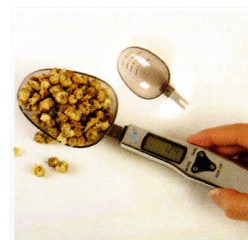
HOW GOOD IS THIS?

DIGITAL SPOON SCALE

- Accumulative features to weigh instantly up to 300g x 0.1g
- Tare and hold features
- Detachable scoop

NW400

\$29

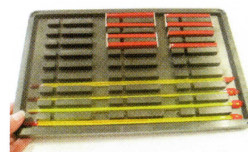


DUAL PURPOSE THERMOMETER / BAR MAGNET STORAGE TRAY

- Moulded plastic
- Will not crack or chip
- Durable tough

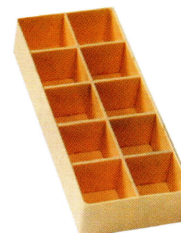
EM2951

\$23



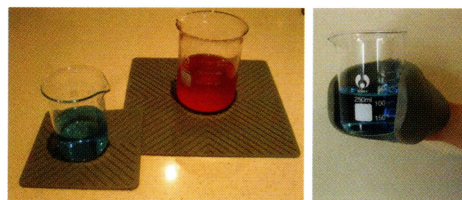
DABCO - UNITRAY

Unitray with Insert	1034001	\$4.95
Unitray w/o Insert	1034002	\$4.50



MAT BENCH, SILICONE RUBBER

Hard wearing, Long lasting, Heat resistant (220° C)
150 x 150mm.....LW3154-001.....\$6.00
250 x 250mm.....LW3155-01.....\$10.00



HOT HAND HOLDER SILICONE RUBBER

LW3849-001

\$11

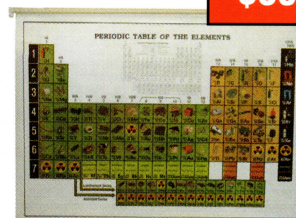
\$10 each
Set of 7 - \$60.00

ILLUSTRATED PERIODIC TABLE WALL CHART 100 X 76 CM

Graphic illustrations of the elements

C598

\$39

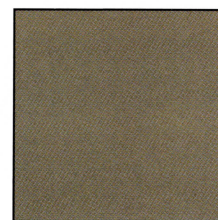


CEMENT SHEET BENCH MATS

Popular product

EM Best Value

100x100mm	LW315201	\$3.00
300x300mm	LW315301	\$6.50



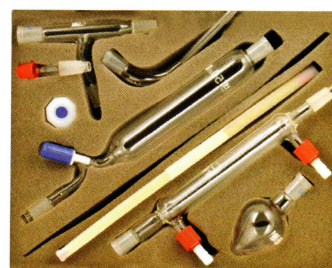
SYNTHESIS AND DISTILLATION KIT

- 9 items
- Push together joints (14/23)
- Compact and easy to handle
- Borosilicate glass

CH0876

\$99

27BU



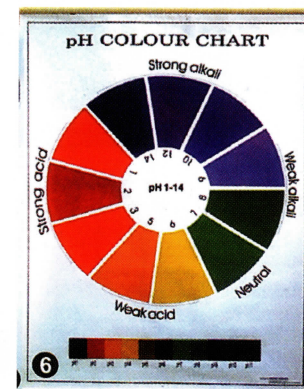
pH COLOUR CHART

Fitted with plastic roller.

CH0598C

100 X 76 CM

\$39



WATER BATH For use with IEC Hot Plate

- This general purpose stainless steel water bath is designed to rest on and be heated by an IEC Hotplate.
- We recommend the 2009-001 model.
- IEC Test Tube racks 3989-401 or 601 fit snugly inside.

424001 Bath only\$173
4240101..... Temp controller.....\$160

Budget Price Exceptional Quality

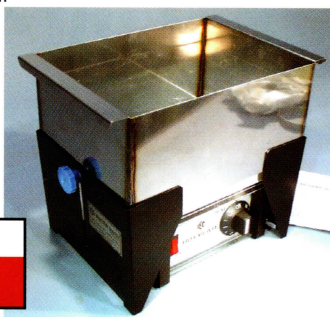
IEC HOTPLATE

Simmerstat Control

- See illustration under Waterbath Image

1920001

\$225



IEC MAGNETIC STIRRER / HOTPLATE

Simmerstat

- Heavy Duty
- Stirrer speed 150-1200rpm
- Surface temperature 420°C Full
- Adjustable 0-10 Scale

2090001

\$375



Magnetic retriever not supplied

POLYCARBONATE WATER BATH

With fast acting thermostat

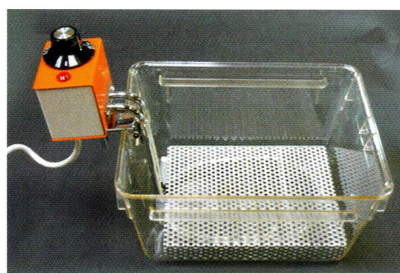
- Inexpensive, safe and authentic design
- Popular educational model

WB14

\$1090

WB14LID

\$100



STULL BOTTLES

- Dispenser cap
- 50 ml
- Pack of 50

EMSB

\$45

Use with Unitray



CAFFEINE MUG

Featuring caffeine molecule

HJ2001

\$14

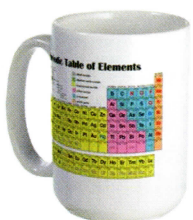


PERIODIC TABLE MUG

Featuring periodic table

HJ2004

\$14



TUBING, PVC CLEAR

6mm	IDx1.5mm Wall, 30m coil	15770030	\$32.00
8 mm	IDx1.5mm Wall, 30m coil	15770040	\$44.00
10 mm	IDx1.5mm Wall, 30m coil	15770050	\$48.00
12.5mm	IDx1.5mm Wall, 30m coil	15770060	\$75.00



OVENS

IEC DIGITAL STUDENT OVEN

With fast acting thermostat

- Small with fan
- Exterior 310x330x435mm

2251001

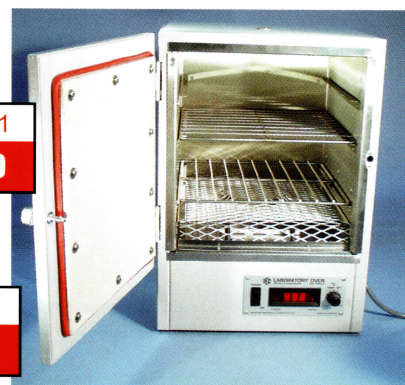
\$1180

IEC NON-DIGITAL STUDENT OVEN

- Small with fan
- Exterior 310x330x435mm

2250001

\$820



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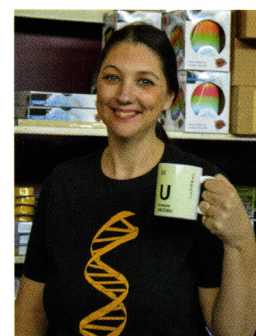


T-SHIRTS S/M/L/XL

- Periodic Table TSP\$25.00
- Caffeine.....TSCA.....\$25.00
- DNA.....TSDMA.....\$25.00

MUGS

- Periodic Table .HJ2004\$14.00
- Caffeine.....HJ2001\$14.00
- Skeleton HJ1999\$14.00
- Uranium HJ1997\$14.00
- Glows in the dark



OMG T SHIRT

Sizes S, M, L, XL

HJ2284

\$25

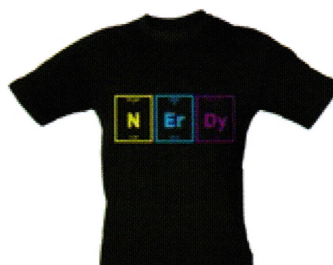
NERDY

T SHIRT

Sizes S, M, L, XL

HJ2294

\$25



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Small LCNS \$28.00



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0.0001g	210g	Nimbus	NB1214i	\$1920.00
0.001g	420g	Nimbus	NB1423e	\$1095.00
0.001g	420g	Nimbus	NB1423i	\$1270.00
0.001g	120g	Highland	HCB123	\$495.00
0.01g	200g	Core	CQT202	\$295.00
0.01g	300g	Highland	HCB302	\$445.00
0.01g	600g	Highland	HCB602H	\$495.00
0.01g	1000g	Highland	HCB1002	\$545.00



Highland 120mm pan



Nimbus 90mm pan
External (e) or Internal (i)
Calibration



Core 120mm pan

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90 MM PAN**



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120 MM PAN**

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0.01g	200g	SP202	\$428.00
0.01g	400g	SP402	\$614.00
0.01g	600g	SP602	\$650.00

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Great capacity! Great resolution!

Great price

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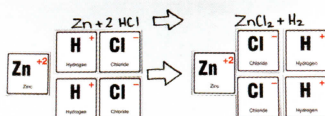
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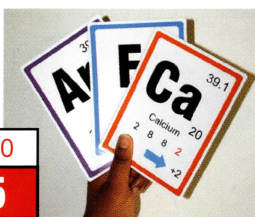
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Features one element per card.
Included for each element is its
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EMT43

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CH1003

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